

笔式盐度计 使用说明书



- 4、CAL/▲/UNIT键:
- a、在正常测量状态下,长按3秒进入CAL校准模式。
- b、在校准模式CAL状态下,P1点、P2点、P3点校准数值,可通过短按1秒数值增加,长按不放数值快速增加。
- c、在正常测量状态下,短按1秒可在盐度单位: ppm(百万分比),ppt(千分比),%(百分比), S.G.(比重)之间转换。
- 5、♥/▼键:
- a、短按1秒可开启或关闭背光灯。
- b、在校准模式CAL状态下,P1点、P2点、P3点校准数值,可通过短按1秒数值减少,长按不放数值快速减少。
- 6、自动关机设置:开机前同时按住 **b**/HOLD键和 CAL/▲/UNIT键3秒进入自动关机设置模式,LCD 屏幕显示APO ON或者APO OFF选择界面,短按 **b**/HOLD键1秒可在APO ON与APO OFF之间选择,选择完成,长按ON/OFF/HOLD键3秒保存并退出此模式。
- a、APO 0N模式: 屏幕显示定时符号, 在无任何按键操作下5分钟后, 自动关机。
- b、APO 0FF模式: 不会自动关机,需要手动关机, 屏幕无显示定时符号。
- 7、温度单位转换模式:开机前,同时按住 **♂**/HOLD键和 ♥/▼键3秒进入温度单位转换模式,LCD显示温度 ℃或 ℉模式,短按**歺**/HOLD键1秒可在 ℃与 ℉模式之间转换,选择完成后,长按**歺**/HOLD键3秒保存,并退出此模式。

五、仪器的校准方法

打开仪器的电池盖,正确的装入电池。仪器 在使用前,如果更换过探测电极,测量溶液前, 先要校正。电极校正后即可使用,并不是每次使 用前都要校正。

仪器在校准或测量之前,把探头放入纯净水中浸泡15分钟左右可以湿润探棒表面并清除附在探棒上的杂质。

仪器采用四点校正的方式进行,在正常测量状态下,按CAL/▲/UNIT键长按3秒进入以下模式:

简介

本公司生产的便携式盐度计,产品精度高、工作稳定、可靠、便于携带。外形设计新颖美观,产品设计更具有专业性,它能测量液体的盐度值并同时显示被测液体的温度。盐度计广泛应用于工业、农业、医药、科研和环保等领域。

-350 -255°

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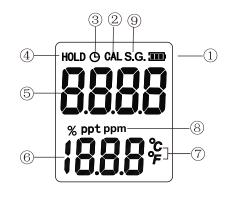
- 一、产品各部件名称:
- ①电源开关/数据保持键
- ②校准模式/数值增加键/ 单位转换键
- ③背光灯/数值减少键
- ④盐度值显示区
- ⑤温度显示区
- ⑥探头

二、产品技术参数:

技术参数		
盐度测量范围	0ppm~999ppm	
	1.00ppt~9.99ppt	
	10.0ppt~100ppt	
分辨率	1ppm/0.01ppt/0.1ppt	
盐度精确度	±3%F.S±1digit	
重复性	±1ppm/0.01ppt/0.1ppt	
被测溶液温度范围	0°C ~100°C	
温度精确度	0°C∼60°C ±1°C 60°C∼100°C ±2°C	
电源	1.5V AAA×2电池	
显示	LCD液晶大屏幕显示	
工作环境温度	0°C~50°C	
工作环境湿度	≪85%RH	
产品尺寸	186×50×27mm	
机身重量(含电池)	120g	

- 1、LCD首先显示CAL Oppm PO进入0点校准模式, CAL闪烁状态,这时把机的探头部分放入纯净水中搅动3次除去探头上的气泡,然后探头静止悬 在纯净水中不动,探头不能靠近容器壁和容器底部.10秒钟左右,LCD显示PAS并自动转到下一个校准点CAL 650ppm P1,表示P0点校准成功。
- 2、快速把探棒放入650ppm 盐度标准溶液中搅动 3次除去探棒上的气泡,然后静止悬在溶液中不动,探棒不能靠近容器壁和容器底部,10秒钟左右显示PAS并自动转到下一个校准点CAL 7.00 ppt P2,表示P1点校准成功.可根据实际的盐度溶液浓度值来校准P1点。按CAL/▲/UNIT键或 ♥/▼键调整数字与实际的校准盐度溶液浓度值一致,P1点调整范围500ppm~999ppm。
- 3、快速把探棒放入纯净水中清洗探棒后再放入7.00ppt盐度标准溶液中搅动3次除去探棒上的气泡,然后静止悬在溶液中不动,探棒不能靠近容器壁和容器底部,10秒钟左右显示PAS并自动转到下一个校准点CAL 75.0ppt P3,表示P2点校准成功。可根据实际的盐度溶液浓度值来校准P2点,按CAL/▲/UNIT键或 ♥/▼键调整数字与实际的校准盐度溶液浓度值一致,P2点调整范围
- 5.00ppt~9.99ppt。
- 4、快速把探棒放入纯净水中清洗探棒后,再放入75.0ppt盐度标准溶液中搅动3次除去探棒上的气泡然后静止悬在溶液中不动,探棒不能靠近容器壁和容器底部,10秒左右显示PAS并自动转到正常测试模式,表示P3点校准成功,可根据实际的盐度溶液浓度值来校准P3点,CAL/▲/UNIT或贷/▼键调整数字与实际的校准盐度溶液浓度一致,P3点调整范围:50.0ppt~99.9ppt。
- 5、如果使用的校准溶液不是预设的数值时,可在校准状态时按CAL/▲/UNIT或贷/▼键调整数值与校准溶液的值一致后,再进行校准。
- 6、如果在校准过程中LCD显示Err的提示,表示 该校准点校准失败,校准溶液不在该校准点的范 围内或传感器已失效。

三、LCD液晶显示屏



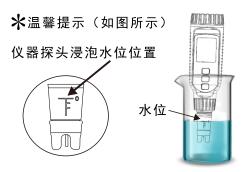
- ①电池电量符号
- ②校准模式符号
- ③定时符号
- ④数据保持符号
- ⑤盐度值显示区
- ⑥温度值显示区
- ⑦温度单位
- ⑧盐度单位
- ⑨比重单位

四、仪器的各个按键功能

1、正常测量模式:

开机默认处于正常测量模式。正常测量模式 能测量盐度值和显示当前的环境温度值或者 液体温度值。在测量模式下把电极放入需要 测试的溶液即可显示盐度值。

- 2、当仪器显示屏右上角显示[□]]电池符号时,请更换电池。仪器长期不使用请将电池取出。
- 3、**6**/H0LD键:短按1秒开机,开机后短按1秒锁定当前测量的读数,长按3秒关机。



※在仪器校准或测量时,请尽量不要把 仪器探头浸泡超过仪器探头上所标注刻 度位置,以避免仪器进水导致损坏。

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版本号:6-AE837A-0010-09



Pen Type Salinity meter **INSTRUCTION MANUAL**



- 4) [CAL / /UNIT] key: a) At normal measurement mode, depress more than 3 second go to calibration mode, CAL icon displayed in the screen.
- b) In this CAL mode, you can depress [CAL/A/UNIT] key to increase the value of P1 and P2 calibration point, long press it can increase the value in fast way
- C) In normal measurement mode, depress "CAL/UNIT key can select the unit of Salinity between ppt (percentile ratio), % (percentage) and S.G (Specific gravity)

- 5) [♥/ ▼] key:

 i. Depress this key can turn on /off of the back light.
 ii. In this CAL mode, you can depress [♥/ ▼] key to reduce the value of P1 and P2 calibration point, long press it can deduct the value in fast way.

 6) Auto Power Off setup: Before power up the unit, depress [Ტ/HOLD] key and [CAL/▲/UNIT] key at the same time more than 3 second the unit will go to Auto Power Off setup mode. LCD displays shown APO ONe.

 Power Off setup mode. LCD displays shown APO ONe. Power Off setup mode, LCD display shown APO ON or APO OFF wording, depress [b/HOLD] key can select APO ON or APO OFF in sequential, after selection, depress [b/HOLD] key more than 3 second will save the selection and back to normal measurement mode.
- a) APO ON mode: LCD display shown the timer icon, if no any key in, unit will turn off after 5 minutes.
 b) APO OFF: No auto power off function, user must turn the unit off by depress the [**b**/HOLD] key, also LCD no timer icon shown.
- Themperature unit selection: Before power up the unit, depress [७/HOLD] key and [७/▼] key at the same time more than 3 second unit will go to temperature selection mode, depress [७/HOLD] key once will select °C/°F in sequential, after selection, depress [७/HOLD] key more than 3 second will select the selection. [b / HOLD] key more than 3 second will save the selection and back to normal measurement mode.

5, INSTRUMENT CALIBRATION METHOD

Open the battery door that located at the top of the instrument, insert two AAA button type battery into this compartment with correct polarity. If you have replaced with a new sensor electrode, please do the calibration before use this instrument to measure again.

If measuring interval time is short, each month calibration once is enough.

Before calibrate this instrument, please immerse the

sensor electrode with pure water at least 15minutes, to wetting the surface of the electrode and clean the

This instruction use three point calibration method for calibrate this unit, please following the step one by one

INTRODUCTION

This device is portable and precise measurement. It made with industrial grade components and sensor it is high sensitive and accuracy, stable to work with different temperature, small size for easy storage and hand carry. It can measure the salinity value and measure solvent's temperature. Salinometer widely used in industrial, agriculture, medicine, food industrial scientific, research and environmental protection etc. It is very important that you need to read through this instruction before using this device to get the accurated readings

1. Explanation of the appearance

- 1) Power ON/OFF / Data Hold button 2) Unit selection / Calibrate / increase button
- 3) Back light / reduce button
- 4) Salinity value reading area
 5) Temperature reading area
- 6) Sensor Electrode



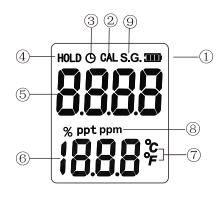
2. Technical parameters:

Technical parameters		
	0ppm∼999ppm	
Salinity measuring range	1. 00ppt~9. 99ppt	
	10. 0ppt~100ppt	
Resolution	1ppm/0. 01ppt/0.1ppt	
Accuracy	+/-3% F.S.+/-1digit	
Repeatability	+/-1ppm/0.01ppt/0.1ppt	
Solvent testing	0°C ~100°C	
Temperature accuracy	0°C ~60°C ±1°C 60°C ~100°C ±2°C	
Power Supply	2*1.5V AAA battery	
Display	LCD segment display	
Working temperature range	0~50 °C	
Working humidity range	≪85%RH	
Size	186×50×27mm	
weight (including battery)	120g	

The unit and calibration solution must be calibrated at ambient environment temperature 25°C +/-2°C. A normal measurement mode, depress [CAL/▲/UNIT] key more than 3 seconds, unit go to calibration mode

- LCD screen shown "CAL 000ppt PO" go to zero point calibration mode, CAL keep flashing at the screen. Please rinse sensor electrode with distilled water and stirred few seconds to move out the bubble on the electrode, immerse seconds to move out the bubble on the electrode, immerse the electrode in the pure water, keep sensor electrode about middle of the water, don't touch the bottom of the container, when the instrument detected the signal become stable (about 10 seconds), LCD display shown "PAS", it means the unit passed zero calibration and unit automatic go to next calibration point, LCD screen "CAL7.00ppt P1" means it successful passed the P0 calibration.
- 2) Clean the sensor electro de quickly with pure water, rinse the sensor electrode into 7.00ppt salinity calibration solvent, and stirred few seconds to move out the bubble on the electrode, keep sensor electrode about middle of the water, don't touch the bottom of the container, when the instrument detected the signal become stable (about 10 seconds), LCD display shown "PAS", it means the unit passed P1 calibration. If you can't find 7.00ppt salinity calibration powder, you can buy a similar one and setup the calibration point value by depress [CAL/▲/UNIT] key or [७/▼] key to match the value of your in hand conductivity calibration powder, the range of P1 calibration point is from 5.00ppt to 8.5ppt.
- 3) Clean the sensor electrode quickly with pure water, rinse the sensor electrode into 40.0 ppt salinity calibration solvent, and stirred few seconds to move out the bubble on the electrode, keep sensor electrode about middle of the water, don't touch the bottom of the container, when the instrument detected the signal become stable (about 10 seconds), LCD display shown "PAS", it means the unit passed **P2** calibration. If you can't find 40.0ppt salinity calibration powder, you can buy a similar one and setup the calibration point value by depress [CAL/▲/UNIT] key or [ʊ/▼] key to match the value of your inhand conductivity cali bration powder, the range of P2 calibration point is from 25.0ppt to 34.0ppt,
- 4) If your Conductivity Calibration powder is not as our pre-set value, you can set it up by depress [CAL/▲/UNIT] key or [♥/▼] key to match the value of your in hand conductivity calibration powder, then proceed the calibration as above method

3.LCD DISPLAY SCREEN



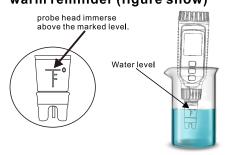
- 1) Battery power icon
- 2) Calibration mode icon
- 3) Timer icon
- 4) Data Hold icon
- 5) Salinity value reading area
- 6) Solvent temperature reading area
- 7) Temperature unit °C/ °F
- 8) Salinity value unit
- 9) Density of the unit

4. Key function of instrument

- 1) Normal measurement mode: ensure power up is normal measurement mode, in this mode you can measure the conductivity and solvent's temperature value under test or environmental temperature value. In this mode, immerse the test probe into the solvent can detect the conductivity and temperature of the solvent under test.
- 2) If you find the battery power icon [] become empty, please replace the battery immediately to ensure the instrument work in good condition. If the instrument don't use for a long period, please take off all the battery to prevent battery leakage damage the instrument.
- 3) [**b**/HOLD] key: depress to power on this instrument, for measurement, depress it more than 3 second to turn off this instrument.

5) If at the calibration process you find "Err" shown at the LCD screen, it means the calibration failed, maybe the calibration powder value not in our range or the sensor electrode damaged.

warm reminder (figure show)



In instrument calibration mode, please don't immerse the probe head below the marked level, to avoid water go inside the instrument to make short circuit of the components.

Special Announcement

Our company reserved the right to change the design and the user manual without prior notice to the end user.

说明书印黑白就可以 尺寸随AS8012 中英文分开两张纸 标配中/英文说明书各一份